

WHAT IS CLAIMED IS:

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1. A method of recording information in an information recording medium, the method comprising:

a first step of outputting, in response to an initialization request for initializing the information recording medium, termination information indicative of termination of the initialization before said initialization starts; and

a second step of starting the initialization at a predetermined timing after the output of the termination information.

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2. The method as claimed in claim 1, wherein the initialization comprises a formatting process and the predetermined timing is a receipt time of a format interrupt request of the information recording medium.

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3. The method as claimed in claim 1, wherein
the predetermined timing is a receipt time of an
ejection request of the information recording medium.

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4. The method as claimed in claim 1, wherein
10 the predetermined timing is a time at which access to
the information recording medium is not requested.

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5. The method as claimed in claim 1, further
comprising:

a third step of creating, in response to an
initialization information request for requesting
20 information regarding the initialization before
completion of the initialization, provisional
information corresponding to the information regarding
the initialization and providing the provisional
information in response to the initialization
25 information request.

5 6. The method as claimed in claim 1, further
comprising:

 a fourth step of interrupting the
initialization in response to a write request for
recording user data in the information recording medium;
10 and

 a fifth step of restarting the initialization
after the user data have been recorded in the
information recording medium.

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 7. The method as claimed in claim 1, wherein
the second step records predetermined management
20 information in a lead-in area of the information
recording medium.

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8. The method as claimed in claim 1, wherein the information recording medium complies with a DVD+RW standard.

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9. A method of recording information in an information recording medium, the method comprising:

10 a first step of recording, in response to a write request for recording user data in the information recording medium accompanied by recording of management information, the user data before the recording of the management information; and

15 a second step of recording the management information after the user data have been recorded.

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10. The method as claimed in claim 9, further comprising:

 a third step of creating, in response to a management information request for requesting the
25 management information before completion of the

recording of the management information, provisional
information corresponding to the management information
and providing the provisional information in response to
the management information request.

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11. The method as claimed in claim 9, wherein
10 the information recording medium complies with a DVD+R
standard.

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12. An apparatus for recording information in
an information recording medium, the apparatus
comprising:

a termination information output part, in
20 response to an initialization request for initializing
the information recording medium, outputting termination
information indicative of termination of the
initialization before said initialization starts; and

an initialization part starting the
25 initialization by recording predetermined initialization

information in a predetermined area in the information recording medium at a predetermined timing after the output of the termination information.

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13. The apparatus as claimed in claim 12, wherein the initialization request is issued by an external apparatus.

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14. The apparatus as claimed in claim 12, further comprising:

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a response part, in response to the initialization information request before completion of the initialization, creating provisional information corresponding to the initialization information and providing the provisional information in response to the initialization information request.

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15. The apparatus as claimed in claim 14,
wherein the initialization information request is issued
by an external apparatus.

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16. The apparatus as claimed in claim 12,
10 further comprising:
an initialization interruption part
interrupting the initialization in response to a write
request for recording user data in the information
recording medium; and
15 an initialization restart part restarting the
initialization after the user data have been recorded in
the information recording medium.

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17. The apparatus as claimed in claim 16,
wherein the write request is issued by an external
apparatus.

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18. An apparatus for recording information in
5 an information recording medium, the apparatus
comprising:

a user data recording part, in response to a
write request for recording user data in the information
recording medium accompanied by recording of management
10 information, recording the user data before the
recording of the management information; and

a management information recording part
recording the management information after the user data
have been recorded.

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19. The apparatus as claimed in claim 18,
20 wherein the write request is issued by an external
apparatus.

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20. The apparatus as claimed in claim 18,
further comprising:

a response part, in response to a management
information request for requesting the management
5 information before completion of the recording of the
management information, creating provisional information
corresponding to the management information and
providing the provisional information in response to the
management information request.

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21. The apparatus as claimed in claim 20,
15 wherein the management information request is issued by
an external apparatus.

20 22. A computer-readable recording medium for
storing a program to cause a control computer of an
information recorder to execute a procedure of recording
information in an information recording medium, the
procedure comprising:

25 a first step of outputting, in response to an

initialization request for initializing the information
recording medium, termination information indicative of
termination of the initialization before said
initialization starts; and

5 a second step of starting the initialization
at a predetermined timing after the output of the
termination information.

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23. The computer-readable recording medium as
claimed in claim 22, wherein the initialization
comprises a formatting process and the predetermined
15 timing is a receipt time of a format interrupt request
of the information recording medium.

20 24. The computer-readable recording medium as
claimed in claim 22, wherein the predetermined timing is
a receipt time of an ejection request of the information
recording medium.

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25. The computer-readable recording medium as
claimed in claim 22, wherein the predetermined timing is
5 a time at which access to the information recording
medium is not requested.

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26. The computer-readable recording medium as
claimed in claim 22, the procedure further comprising:
a third step of creating, in response to an
initialization information request for requesting
15 information regarding the initialization before
completion of the initialization, provisional
information corresponding to the information regarding
the initialization and providing the provisional
information in response to the initialization
20 information request.

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27. The computer-readable recording medium as

claimed in claim 22, the procedure further comprising:

a fourth step of interrupting the
initialization in response to a write request for
recording user data in the information recording medium;

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a fifth step of restarting the initialization
after the user data have been recorded in the
information recording medium.

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28. A computer-readable recording medium for
storing a program to cause a control computer of an
15 information recorder to execute a procedure of recording
information in an information recording medium, the
procedure comprising:

a first step of recording, in response to a
write request for recording user data in the information
20 recording medium accompanied by recording of management
information, the user data before the recording of the
management information; and

a second step of recording the management
information after the user data have been recorded.

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29. The computer-readable recording medium as
5 claimed in claim 28, the procedure further comprising:

a third step of creating, in response to a
management information request for requesting the
management information before completion of the
recording of the management information, provisional
10 information corresponding to the management information
and providing the provisional information in response to
the management information request.